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(71) Applicant: **MINNESOTA MINING AND
MANUFACTURING COMPANY**
St. Paul, Minnesota 55133-3427 (US)

(72) Inventors:
• **Huizinga, John S.**
Dellwood, Minnesota 55110 (US)

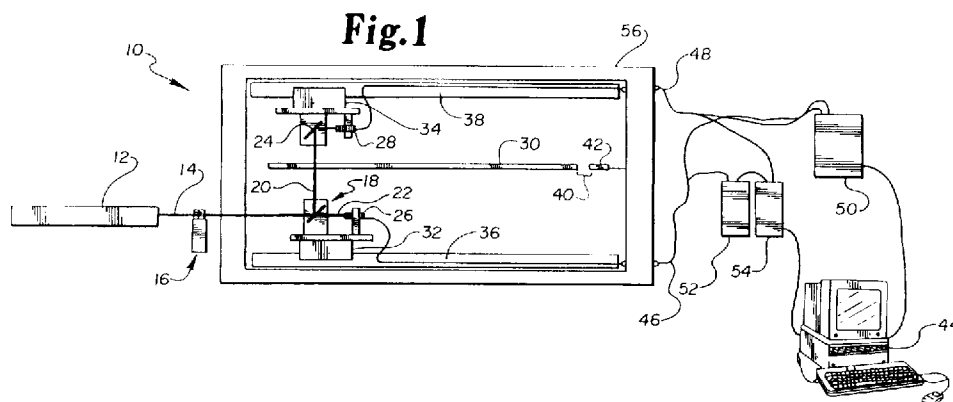
• **Costello, John J. III.**
Afton, Minnesota 55001 (US)

(74) Representative: **Hilleringmann, Jochen, Dipl.-Ing.**
et al
Patentanwälte
von Kreisler-Selting-Werner,
Bahnhofsvorplatz 1 (Deichmannhaus)
50667 Köln (DE)

(54) **High resolution high speed film measuring apparatus and method**

(57) A high speed high resolution solid film measuring apparatus (10) and method uses coherent monochromatic light (14) by passing the coherent monochromatic light (14) through the solid film (30) and referencing the degree of absorption to known or on-line measured reference values. The measuring apparatus (10) and method accounts for difference in clarity and

translucency to derive a running analysis of the solid film (30) thickness. Resolution and speed of the measuring apparatus (10) provides for the adaptation of the measuring device (10) to on-line manufacturing systems as part of a feedback control loop through the manufacturing process.



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	US-A-4 027 161 (WILLIAMS PAUL ET AL) 31 May 1977 * abstract; figures *	1,6	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24 April 1996	Examiner Ramboer, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EUROPEAN SEARCH REPORT

Application Number
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Place of search THE HAGUE		Date of completion of the search 24 April 1996	Examiner Ramboer, P
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